

SEQUENCE LISTING

<110>	Liaw, Gi Pedersen Hendriks	, Sve													
<120>	A Method	of 1	Produ	ucing	g Sa	cchai	ride	Pre	para	cions	S				
<130>	5318.200	-US													
<160>	5														
<170>	PatentIn version 3.2														
<210> <211> <212>	1605														
•	Aspergillus Niger														
	sig_pept (1)(72														
<220> <221> <222>	CDS (1)(16	02)													
	mat_pept (73)(1														
<400>	1 g ttc cga	tat	at a	ata	999	ata	200	999	ata	at a	taa	2.02	aaa	48	
	r Phe Arg													40	
	a aat gtg a Asn Val -5													96	
	a gcg acc ı Ala Thr													144	
	t gct tgg y Ala Trp													192	
	c acg gat r Thr Asp													240	
	gtc ctc 1 Val Leu 60													288	

								tac Tyr									336
								gat Asp									384
	_		_			-	_	gag Glu		_							432
								gct Ala									480
			_		_		_	aat Asn 145									528
_		_				_		aac Asn	_	_	_			_			576
			_				_	ctc Leu		_	_	_			_		624
			_		_			cac His	_	_		_	_		_		672
								tcc Ser									720
								cag Gln 225									768
								cgt Arg									816
								gat Asp									864
								cgc Arg									912
								tat Tyr									960
gac	agc	gag	gct	gtt	gcg	gtg	ggt	cgg	tac	cct	gag	gac	acg	tac	tac	1	800.

Asp	Ser	Glu	Ala 300	Val	Ala	Val	Gly	Arg 305	Tyr	Pro	Glu	Asp	Thr 310	Tyr	Tyr		
											gcc Ala					3	L056
											tcg Ser 340					1	1104
											agc Ser					3	1152
											agc Ser					נ	1200
											gtg Val					1	1248
											aag Lys					1	1296
											gct Ala 420					1	1344
_			_	_			_			_	tct Ser					1	1392
	_	_	_					_		_	aca Thr					1	1440
											agt Ser					1	1488
											tcc Ser					1	1536
											acc Thr 500					1	1584
-		ggt Gly	_			tga										1	1605

<211> 534

<212> PRT

<213> Aspergillus Niger

<400> 2

Met Ser Phe Arg Ser Leu Leu Ala Leu Ser Gly Leu Val Cys Thr Gly
-20 -15 -10

Leu Ala Asn Val Ile Ser Lys Arg Ala Thr Leu Asp Ser Trp Leu Ser
-5 -1 1 5

Asn Glu Ala Thr Val Ala Arg Thr Ala Ile Leu Asn Asn Ile Gly Ala 10 15 20

Asp Gly Ala Trp Val Ser Gly Ala Asp Ser Gly Ile Val Val Ala Ser 25 30 35 40

Pro Ser Thr Asp Asn Pro Asp Tyr Phe Tyr Thr Trp Thr Arg Asp Ser 45 50 55

Gly Leu Val Leu Lys Thr Leu Val Asp Leu Phe Arg Asn Gly Asp Thr 60 65 70

Ser Leu Leu Ser Thr Ile Glu Asn Tyr Ile Ser Ala Gln Ala Ile Val 75 80 85

Gln Gly Ile Ser Asn Pro Ser Gly Asp Leu Ser Ser Gly Ala Gly Leu 90 95 100

Gly Glu Pro Lys Phe Asn Val Asp Glu Thr Ala Tyr Thr Gly Ser Trp 105 110 115 120

Gly Arg Pro Gln Arg Asp Gly Pro Ala Leu Arg Ala Thr Ala Met Ile 125 130 135

Gly Phe Gly Gln Trp Leu Leu Asp Asn Gly Tyr Thr Ser Thr Ala Thr
140 145 150

Asp Ile Val Trp Pro Leu Val Arg Asn Asp Leu Ser Tyr Val Ala Gln
155 160 165

Tyr Trp Asn Gln Thr Gly Tyr Asp Leu Trp Glu Glu Val Asn Gly Ser 170 175 180 Ser Phe Phe Thr Ile Ala Val Gln His Arg Ala Leu Val Glu Gly Ser Ala Phe Ala Thr Ala Val Gly Ser Ser Cys Ser Trp Cys Asp Ser Gln Ala Pro Glu Ile Leu Cys Tyr Leu Gln Ser Phe Trp Thr Gly Ser Phe Ile Leu Ala Asn Phe Asp Ser Ser Arg Ser Gly Lys Asp Ala Asn Thr Leu Leu Gly Ser Ile His Thr Phe Asp Pro Glu Ala Ala Cys Asp Asp Ser Thr Phe Gln Pro Cys Ser Pro Arg Ala Leu Ala Asn His Lys Glu Val Val Asp Ser Phe Arg Ser Ile Tyr Thr Leu Asn Asp Gly Leu Ser Asp Ser Glu Ala Val Ala Val Gly Arg Tyr Pro Glu Asp Thr Tyr Tyr Asn Gly Asn Pro Trp Phe Leu Cys Thr Leu Ala Ala Ala Glu Gln Leu Tyr Asp Ala Leu Tyr Gln Trp Asp Lys Gln Gly Ser Leu Glu Val Thr Asp Val Ser Leu Asp Phe Phe Lys Ala Leu Tyr Ser Asp Ala Ala Thr Gly Thr Tyr Ser Ser Ser Ser Ser Thr Tyr Ser Ser Ile Val Asp Ala Val Lys Thr Phe Ala Asp Gly Phe Val Ser Ile Val Glu Thr His Ala Ala Ser Asn Gly Ser Met Ser Glu Gln Tyr Asp Lys Ser Asp Gly Glu

Gln 1	Leu 410	Ser	Ala	Arg	Asp	Leu 415	Thr	Trp	Ser	Tyr	Ala 420	Ala	Leu	Leu	Thr		
Ala 1 425	Asn	Asn	Arg	Arg	Asn 430	Ser	Val	Val	Pro	Ala 435	Ser	Trp	Gly	Glu	Thr 440		
Ser i	Ala	Ser	Ser	Val 445	Pro	Gly	Thr	Cys	Ala 450	Ala	Thr	Ser	Ala	Ile 455	Gly		
Thr 3	Tyr	Ser	Ser 460	Val	Thr	Val	Thr	Ser 465	Trp	Pro	Ser	Ile	Val 470	Ala	Thr		
Gly (Gly	Thr 475	Thr	Thr	Thr	Ala	Thr 480	Pro	Thr	Gly	Ser	Gly 485	Ser	Val	Thr		
Ser 5	Thr 490	Ser	Lys	Thr	Thr	Ala 495	Thr	Ala	Ser	Lys	Thr 500	Ser	Thr	Thr	Thr		
Arg 5	Ser	Gly	Met	Ser	Leu 510												
<210> 3 <211> 30 <212> DNA <213> Artificial Sequence																	
<220> <223> Primer																	
<400> 3 gaatgacttg gttgacgcgt caccagtcac														30			
<210> 4 <211> 68 <212> DNA <213> Artificial Sequence																	
<220: <223:		Prime	er														
<400: gggg			atagg	gacta	ag co	catat	taat	gaa	agggo	cata	taco	cacgo	ect t	ggad	cctgcg		60
ttata	agco	2							٠								68
<210:		5 24															

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 5

cctacactgg tccttgggga cggc

24